

COUNTRY Poland

SUBJECT Starachowice Mining Enterprises

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**PLACE
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NO. OF ENCLS. 1
(LISTED BELOW) (Encl. "A")

**DATE
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**SUPPLEMENT TO
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50X1

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1. Starachowickie Zakłady Gornicze [] the machine 50X1
shops (zakłady mechaniczne) included: [See Enclosure (A)]
- (1) Barracks of the factory guards
 - (2) "Widia" (Vidia) Division, producing tungsten carbides according to a German patent of Krupp. This division included a section for sintering plates and grinding machines where "Widia" plates were soldered welded on shanks and edges ground. Besides the production of new plates, all types of tools with "Widia" plates were sharpened for the entire plant.
 - (3) Projectile shop, machining of artillery projectiles and fuses. The projectile shop included a section for hot pressing of shell cases, further machining, installation of rotating bands, and complete production of fuses. In the basement of the shop was the central boiler shop of the electric enterprises and warehouses for non-ferrous metals. The so-called pickling shop, a section for treating surfaces of metals, operated within the framework of the projectile shop.
 - (4) Automobile Chassis Division, pressing and welding of automobile chassis, on orders of the Polish FIAT and State Engineering Works (Panstwowe Zakłady Inzynierii).
 - (5) Mechanical Installation Division, operations connected with the maintenance of operations and repair of equipment of the machine shops.
 - (6) Artillery Division I, production of field guns, 75 millimeter caliber (French-type field gun), and production of prototypes.
 - (7) Carpenter Shop, regular construction work. It also produced ammunition cases and artillery equipment.

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- (8) Artillery Division II, producing antiaircraft guns, 40 millimeter caliber, Bofors type.
 - (9) Bureau of Engineering Design building.
 - (10) Administration building.
 - (11) Manual trades school buildings.
 - (12) Tool shop producing tools other than standard types for own use and for other armament factories.
2. All production shops of buildings(3), (6), and (8) [See Enclosure (A)] were of reinforced concrete construction and were equipped with traveling cranes, overhead lighting, and heated with hot air. Buildings (1), (9), (10), and (11) were of masonry. Buildings (2), (4), (5), and (7) were of steel frame and masonry construction.

Type of production

3. Initially, the enterprises included production of 37-millimeter antitank guns, 40 millimeter Bofors antiaircraft guns, and 75, 105, and 155-millimeter field guns. In 1939, production of Bofors small guns was established as basic and 75-millimeter field guns as auxiliary. Other artillery gun production was limited to construction of prototypes and preparation of their production for other armament plants. Actual production of antitank small guns, however, was taken over by the Engineers and Mechanics Factory (Wytownia Inzynierow-Mechanikow) in Pruszkow near Warsaw. Production of 75, 105, and 155-millimeter guns was taken over by Southern Enterprises (Zaklady Poludniowe) in Stalowa Wola. The sphere of production of the Starachowice enterprises included construction of guns with the exception of chassis which were produced by the Zieleniewski Enterprises (Zaklady Zieleniewskiego) in Krakow and the Cegielski Enterprises (Zaklady Cegielskiego) in Poznan. Preparation for production consisted of designing; preparation of complete workshop blueprints; planning; and preparation of tools, chucks, and gauges. Part of the work on designing and building was done by the State Gauge Factory (Panstwowa Wytownia Sprawdzianow) in Radom. Independent of gun production, Starachowice enterprises planned and produced artillery ammunition especially for antiaircraft artillery. Customers for this production were: 50X1 Polish army. Quantity of production and its distribution among customers is difficult to establish because of a cryptonymous method of freighting to one distribution station of the state railroads. During peace time, production amounted to approximately 15-20 antiaircraft guns and eight field guns per week. Technical equipment of Starachowice Enterprises was at a high level; machine tools and equipment were of Polish, UK, and French make. Supervisory personnel and workers were highly experienced.
4. From the military viewpoint, Starachowice enterprises was an important production center, having access to nearly 14 thousand experienced workers. According to today's standards, it was well equipped technically. The undertaking of any mechanical precision production was possible there. There were shortcomings, however. Starachowice enterprises were too far away from the coal basin and had a water shortage. The daily flow of the Kamienna River, which amounts to an average to 3,600 cubic meters per day, was not sufficient to cover the needs of the housing settlement and the enterprises. Needs during the summer were just about covered by the reservoir. The Starachowice Enterprises could be put out of operation for some time by breaking the dam of the reservoir. Aerial reconnaissance of the machine shops would be relatively easy through orientation of the Kamienna valley. During the spring and summer, the valley is covered with heavy fog and locating the works would be difficult.

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5.



6. Mention should be made of the sawmill and the Finishing Division for Artillery Ammunition (Wydial Elaboracji Amunicji Artylenyjskiej). The sawmill, despite its large production, is not basically a decisive factor in the Starachowice enterprises production. It is located on the road to Radom at a distance of $1\frac{1}{2}$ kilometers from the machine shops. The Finishing Division was located about one-half kilometer to the left of the road and five kilometers up the road to Radom. It has been inactive since 1939. The buildings of the Finishing Division are of wood and are not of much production value today.

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ENCLOSURE (A): Sketch of Starachowice Mining Enterprises

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SKARZYNSKIE MINING ENTERPRISES, JOINT STOCK COMPANY

(STARACHOWICKIE ZAKLADY GORNICZE SA)

1. 20 x 8 x 40 meters
2. 22 x 10 x 30 "
3. 60 x 14 x 80 "
4. 22 x 14 x 32 "
5. 22 x 12 x 40 "
6. 60 x 14 x 110 "
7. 30 x 10 x 30 "
8. 60 x 14 x 180 "
9. 30 x 10 x 45 "
10. 25 x 16 x 55 "
11. 20 x 10 x 30 "
- 20 x 10 x 30 "

Coniferous Forests

Coniferous Forests

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Housing Settlements

Housing Settlements

Stone Walls Remaining from Abandoned Quarries

Forests

Road to Wierzbica Radom

Housing Settlement

Church

Water Tower

Repair Shops for Factories Railroads

50X1

Scale: 1 inch/500 meters

Old Stone Quarries Used as Dumping Ground for Slag and Cinders

Wierzbnik Settlement

Wierzbnik Railroad Station

Skarzynsko-Kamienna-Ostrowiec Railroad

Reservoir

Kamienna River

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ENCLOSURE (A)